

PHOTOGRAPHIC INTERPRETATION REPORT



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RAIL-TO-ROAD
TRANSFER POINTS SERVING
SOVIET IRBM AND MRBM
LAUNCH COMPLEXES

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PHOTOGRAPHIC INTERPRETATION REPORT

RAIL-TO-ROAD TRANSFER POINTS SERVING SOVIET IRBM AND MRBM LAUNCH COMPLEXES

FEBRUARY 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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INTRODUCTION

This report, issued in response to GMAIC requirement 38-6, identifies and summarizes information concerning a number of rail-to-road transfer points serving Soviet IRBM and MRBM launch complexes. In addition, differences between missile and POL transfer facilities are outlined to assist in eliminating confusion arising from the superficial similarity of these installations.

SUMMARY AND CONCLUSIONS

An analysis of available [] photography covering all known IRBM/MRBM complexes resulted in the identification of 34 rail-to-road missile transfer points. Probable transfer sites and airfields possessing possible transfer facilities are not reported.

General features observed at the missile transfer points were loop roads, security fences, end- and side-loading platforms, and high screen fences (Figures 1 and 2). Access roads with wide-radius turns and short bypasses were found common to most transfer facilities.

Many locations exhibited single security fences and, at the entrance to 7 sites, guardhouses were observed. Loop roads, with loop diameters averaging 220 feet, were found at 24 sites and high screen fences which afford concealment of activities at ground level were observed in the immediate transfer area at a number of installations.

The one significant feature common to most of the missile transfer points observed was a concrete end- and side-loading open platform approximately 200 feet long with a ramp at one end. At many sites this was the only struc-

ture visible. Also noted was a distinctive offset or apron in the roadway near the forward end of the ramp.

Features observed at POL transfer points (Figure 3) differed in several respects from those of a missile transfer point. Generally the road loop contained buildings, storage tanks, racks and, occasionally, horizontal fuel tanks. The loop itself was found to be of a smaller diameter and more symmetrical. A single building, probably a transfer station, was observed in most facilities immediately adjacent to the road loop. Rail tank cars on the spur leading to the road loop and fuel tanks, in revetments, were visible at many POL transfer installations.

One of the more apparent differences observed between missile and POL transfer points was the distance which the road paralleled the rail spur. At most missile transfer points the road closely paralleled the rail spur for a distance exceeding 700 feet. At most of the POL facilities observed a definite rail-road pattern was not evident. In the only instance the road paralleled the rail spur, a distance of approximately 200 feet separated the two.

A number of transfer installations provide facilities for handling both missile and POL transfer. At these sites, the POL transfer installation occupies the road loop used as a missile-transport turnaround. A double loop road observed at several locations has a POL transfer function within one loop, while the other serves as a missile-vehicle turnaround.

Two missile rail-to-road transfer points were observed to be in the final stages of construction. Two launch complexes, Konkovich and Zhitomir, associated with these facilities were completed prior to [] and the reason for the current construction cannot be determined at this time. The Konkovich transfer point (Figure 4), negated in []

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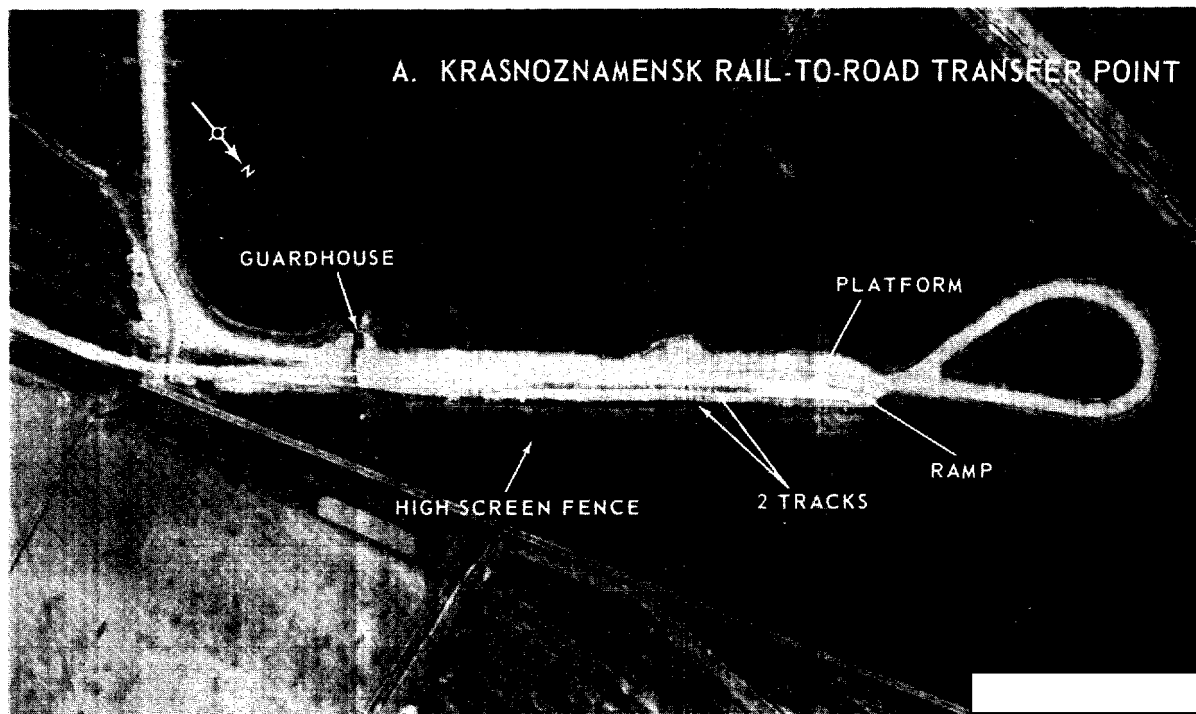
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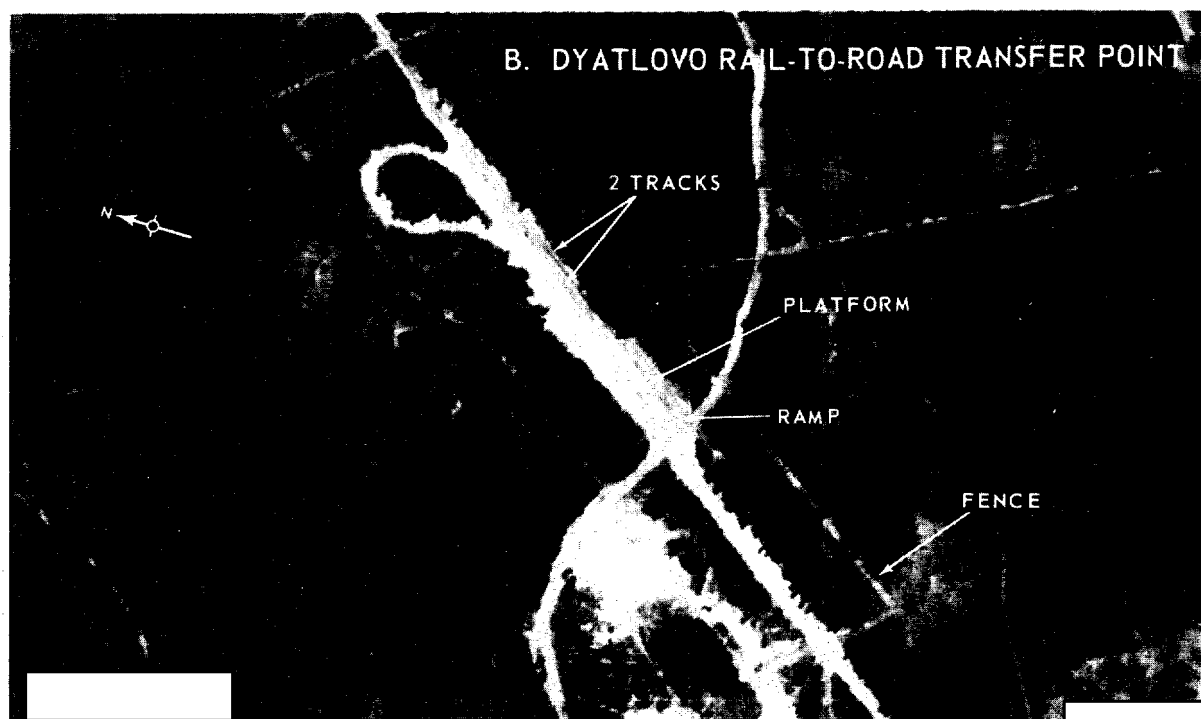
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FIGURE 1. RAIL-TO-ROAD MRBM TRANSFER POINTS--A. KRASNOZNAMENSK; B. DYATLOVO.

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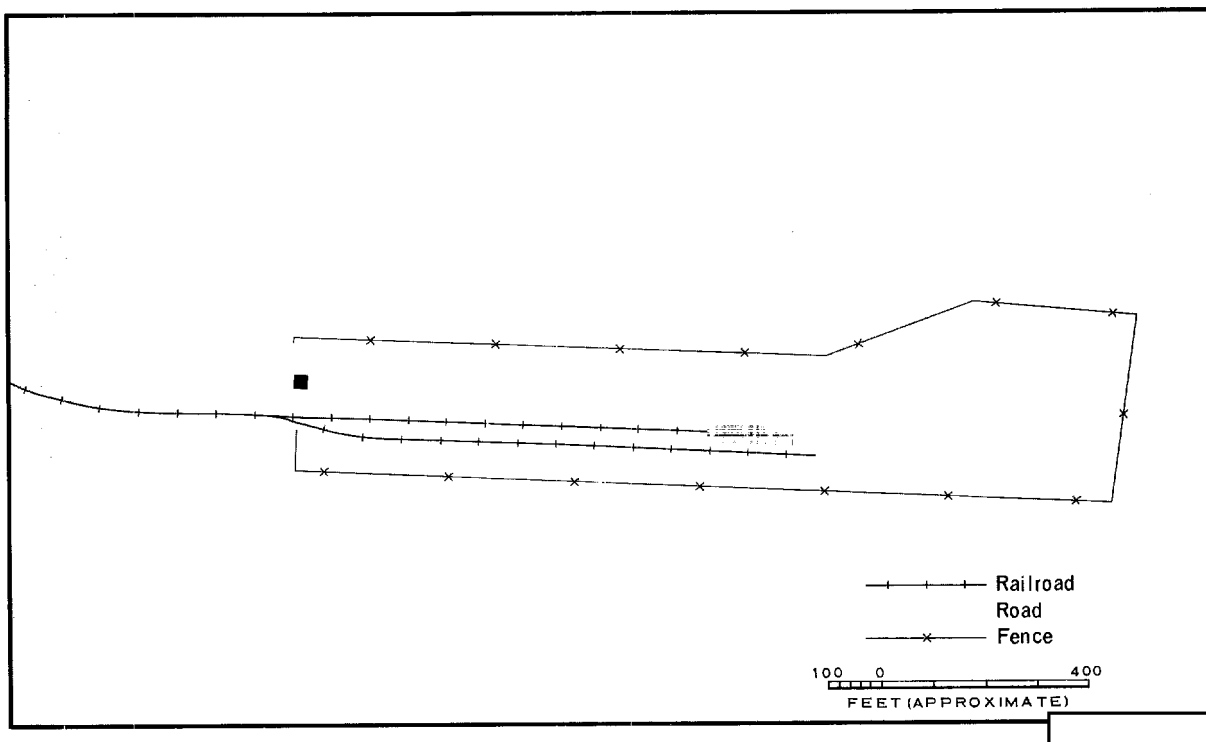


FIGURE 2. PLAN VIEW OF TYPICAL MISSILE RAIL-TO-ROAD TRANSFER POINT. Dimensions represented are average or approximate.

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[redacted] was first visible in [redacted]
[redacted] further activity was
noted in [redacted] with
the final stages of construction observed in
[redacted] The access road
to this installation intersects a new high-speed
highway being constructed through the area.

At the Zhitomir missile transfer point (Fig-
ure 5), negated in [redacted]
construction was first observed in [redacted]
[redacted] further construction was
visible in [redacted]
with the final stages of construction observed in

A study of the road pattern associated with
several launch complexes indicates the possi-
bility of certain airfields offering missile trans-
fer capabilities. No definite conclusions were
arrived at in conjunction with this possibility.

Transfer points in this report are located
by coordinates, and with reference to the nearest
city and/or missile launch complex. Launch
sites are designated by TDI names, and all
measurements are approximate. Table 1 con-
tains detailed information concerning the rail-
to-road transfer points identified to date.

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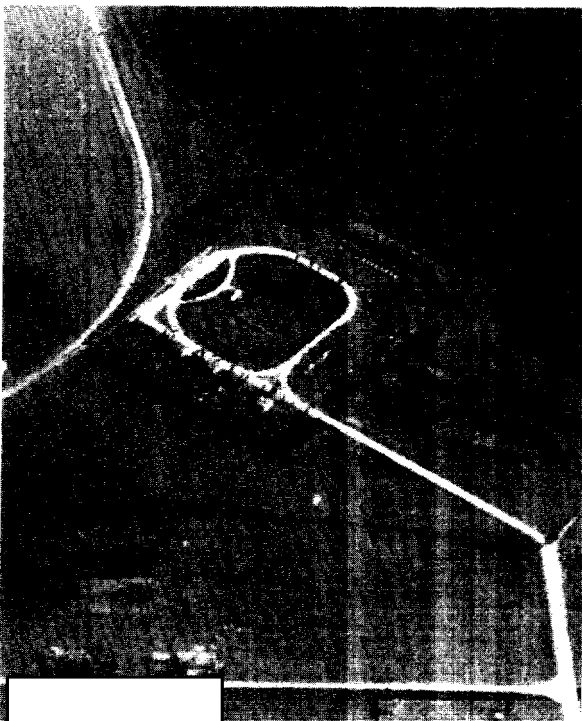
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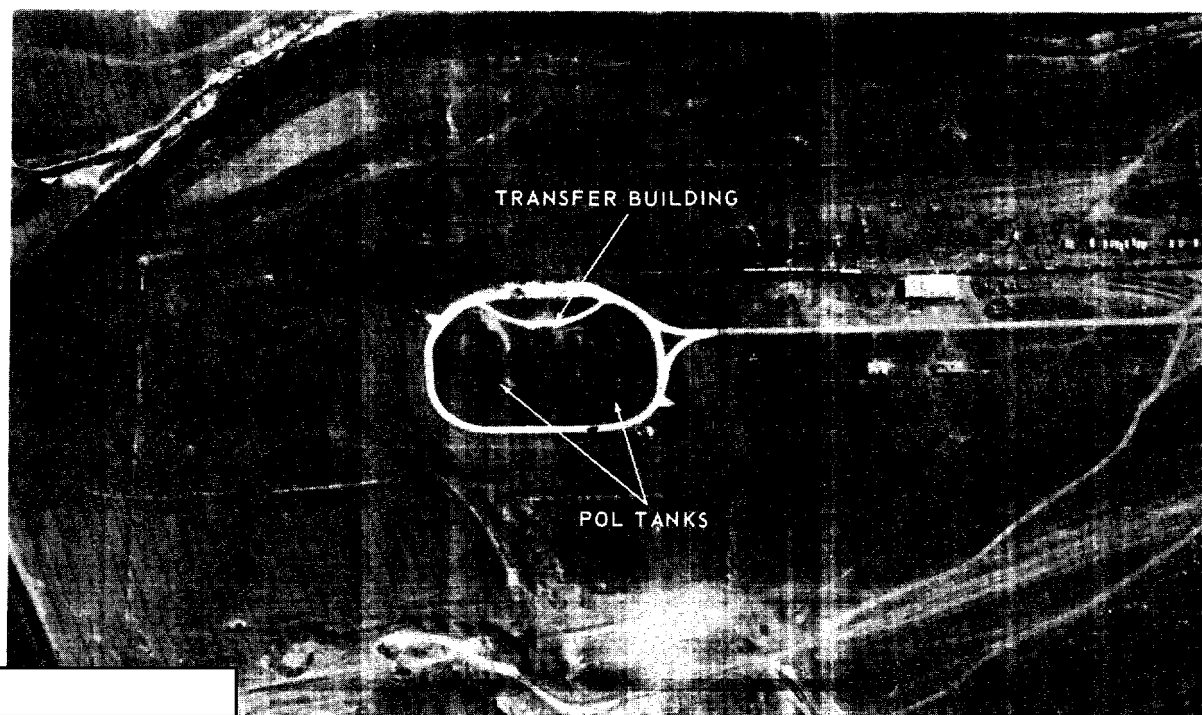
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FIGURE 3. TYPICAL POL RAIL-TO-ROAD TRANSFER POINTS.

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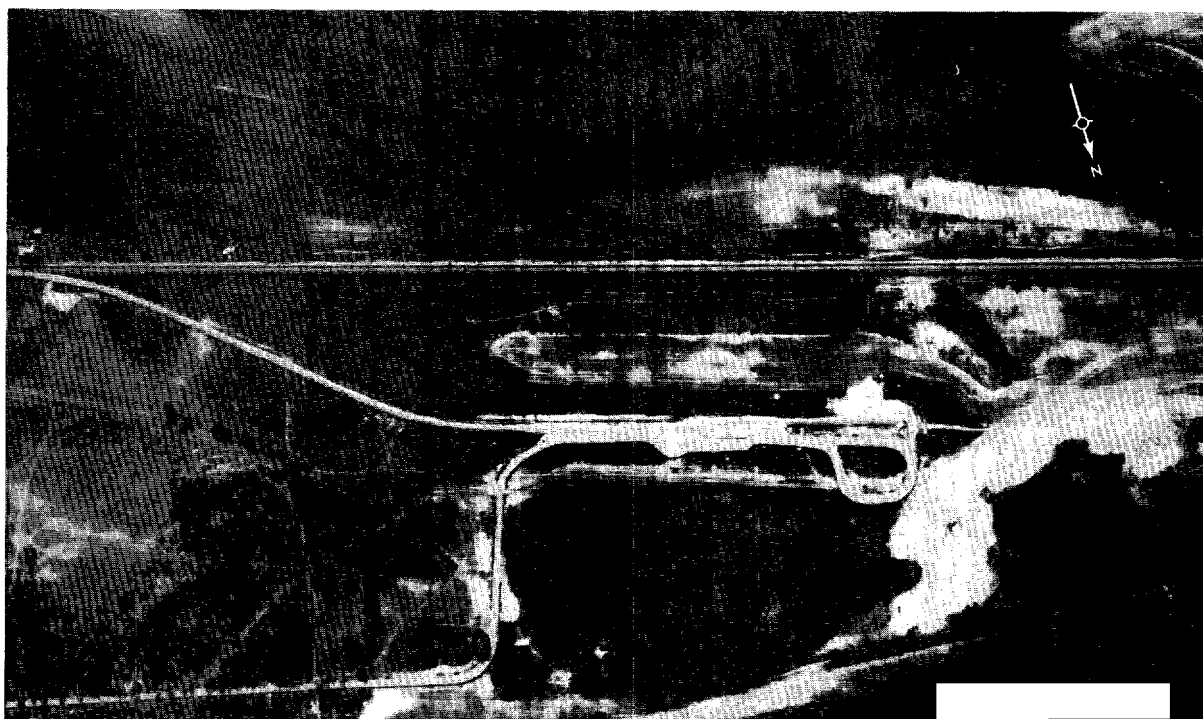


FIGURE 4. STAGES OF CONSTRUCTION AT KONKOVICHI MRBM RAIL-TO-ROAD TRANSFER POINT.

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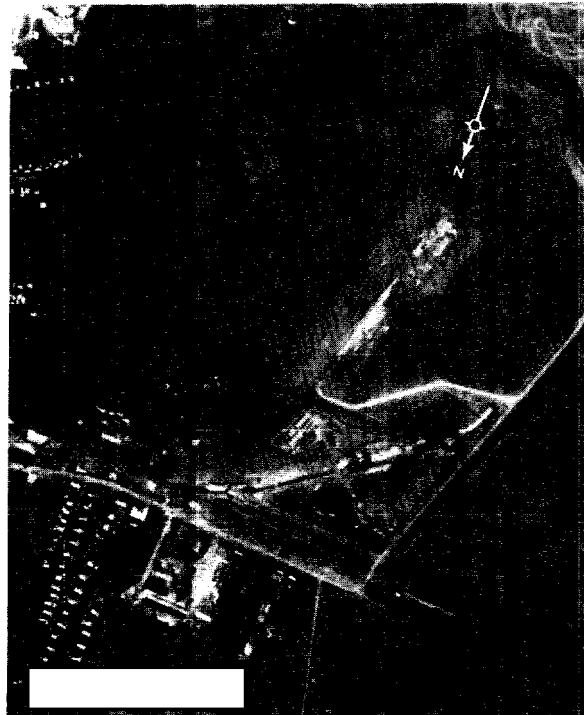
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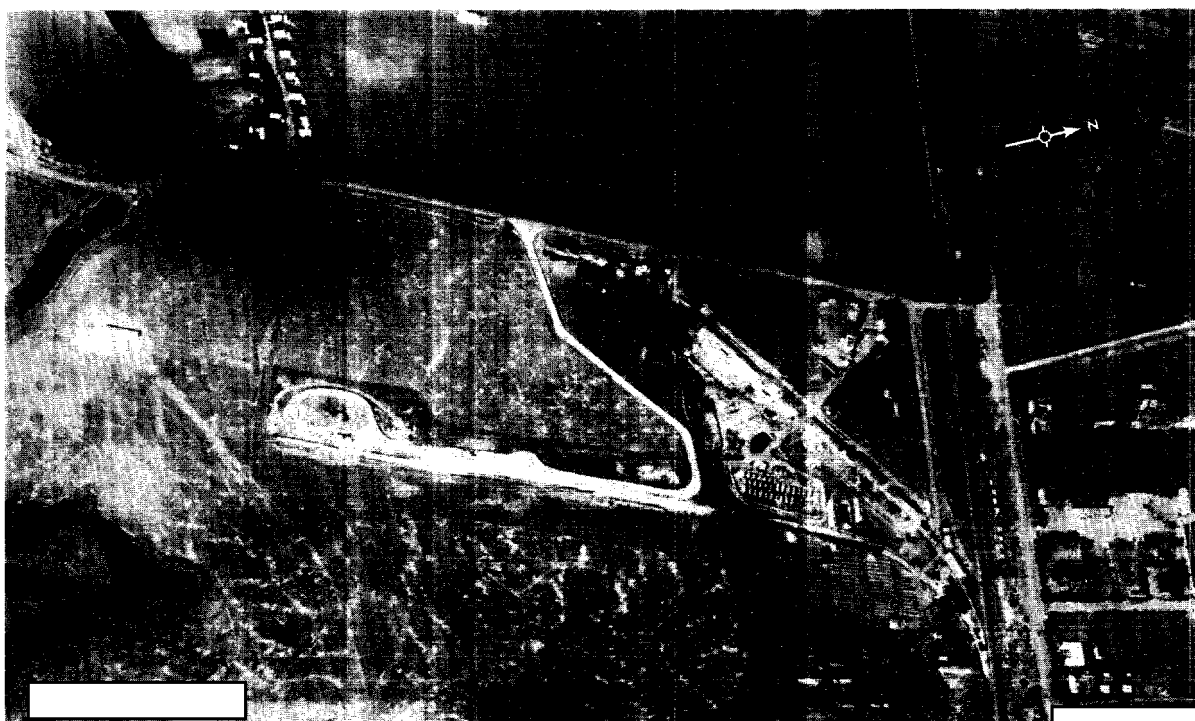


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FIGURE 5. STAGES OF CONSTRUCTION AT ZHITOMIR MRBM RAIL-TO-ROAD TRANSFER POINT.

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Table 1. Rail-to-Road Transfer Points Serving Soviet IRBM and MRBM Launch Complexes

Location	Coordinates	Complex	Security	Length of Spur	Road Parallels Spur	Diameter of Road Loop	Buildings/Platforms	Remarks
2.7 nm SSE of Aktyubinsk Airfield, 24 nm NE of Karakhoda Launch Site 1, 17 nm NE of Petrovskiy Launch Site 1.	50-11N 57-16E	Aktyubinsk (IRBM)	Double-fenced rectangular area approx 1200 x 500 ft	Approx 2100 ft	Approx 550 ft	Approx 190 ft	One large warehouse and several smaller buildings within fenced area. Probable side-loading platform approx 300 ft long between rail and road spur.	Transfer area is bounded on north and east by high fence. Four storage tanks located in road loop suggest a possible multipurpose facility. Good roads connect transfer point to missile launch complex.
7.5 nm W of Gulbene, 13.4 nm SSW of Lajasciems Launch Site 1, 15.4 nm SSW of Ruski Launch Site, 3.2 nm SSW of Lajasciems Launch Site 2, 7.5 nm SW of Lajasciems SSM Fixed Field Position, 14.5 nm SW of Gulbene SSM Fixed Field Position.	57-10N 26-31E	Aluksne (MRBM)	Single fence approx 720 x 250 ft	Approx 1400 ft	Approx 1200 ft	Approx 240 ft	Three buildings located within secured area. End- and side-loading platform. Rail spur becomes 2 tracks, with 1 terminating at forward end of platform and the other ending just beyond platform.	Good roads with wide-radius turns connect transfer point to launch complex.
Western section of Sosnovets, 4 nm ESE of Ramoye Launch Site.	64-21N 34-27E	Belomorsk (IRBM)	Not discernible	Approx 2700 ft	Not discernible	No road loop present.	Several large and numerous small unidentified buildings. Platform not visible.	Public roads are used as access to this area. Good roads lead to the launch complex.
3.0 nm SW of Borkovich, 6.1 nm NE of Disna Launch Site, 3.2 nm N of Zelki Launch Site, 3.6 nm S of Borkovich Launch Site.	55-38N 28-23E	Disna (MRBM)	Not discernible	Approx 2100 ft	Approx 1400 ft	Road parallels spur then makes 180° turn with turning radius of approx 180 ft.	End- and side-loading platform with ramp at one end. Rail spur becomes 2 tracks with one ending at platform and the other paralleling platform, then ending in a warehouse area. One warehouse and several smaller buildings in area.	There are additional areas in the vicinity which have road patterns sometimes associated with rail-to-road transfer points. This facility, however, appears to be the transfer point for the Disna Launch Complex.
7.8 nm NNW of Novoyelnya, 8 nm ENE of Dyatlovo Launch Site, 1.4 nm SW of Berozovka Launch Site, 7.7 nm E of Zblyany Launch Site.	53-35N 25-30E	Dyatlovo (MRBM)	Single fence approx 1560 x 350 ft	Approx 3400 ft	Approx 750 ft	Approx 240 ft	An end-loading platform approx 310 ft long with ramp is the only structure visible.	The Dyatlovo Fixed Field Sites and the Lida Launch Complex are also possibly served by this facility. A loop road and rail spur are also observed on the NE outskirts of Novoyelnya; however, there appears to be little activity at this site.
4 nm NNW of Manas, 11.1 nm NE of Kakashura Launch Site, 9.2 nm E of Gelli Launch Site, 14.2 nm ESE of Paraul Launch Site.	42-44N 47-40E	Gelli (IRBM)	Single fence approx 1400 x 350 ft	Approx 1700 ft	Approx 1100 ft	Approx 240 ft	Three large and several small buildings located between rail spur and roadway. There are 2 spurs inside secured area, 1 terminating at an end-loading platform.	Two unidentified round structures 60 ft in diameter are located within road loop.
6.2 nm E of Rechitsa, 6.1 nm NNE of Borkhov Launch Site 1, 2.3 nm SW of Borkhov Launch Site 2, 8.6 nm W of Gomel SSM Fixed Field Position.	52-22N 30-36E	Gomel (MRBM)	Single fence	Approx 4200 ft	Approx 980 ft	Approx 200 ft	Four large and several small buildings. Unloading platform located between rail spur and road is approx 250 ft long.	Improved roads lead from the transfer site to the Gomel Launch Complex.
Rail terminus 9.8 nm N of Gayzin, 3.6 nm NW of Granov Launch Site 1, 9.1 nm N of Granov Launch Site 2, 3.6 nm ESE of Kalnik Launch Site.	48-59N 29-27E	Granov (IRBM)	Possible single fence	Track terminates 8 nm from main line	Not discernible	None present	Numerous large warehouses and many small buildings in area. No platform discernible.	Local industries share transfer area. Small-scale photography precludes detailed interpretation. Local roads utilized as access to transfer area.

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Table 1. (Continued)

Location	Coordinates	Complex	Photo Ref	Security	Length of Spur	Road Parallel to Spur	Diameter of Road Loop	Buildings Platforms	Remarks
One nm S of Gvardeysk, 3.7 nm SSW of Gvardeysk Launch Site 1, 5.2 nm SSW of Gvardeysk Launch Site 2, 14.5 nm SW of Goryskoye SSM Fixed Field Position, 18.9 nm SW of Vysokoye SSM Fixed Field Position	61-57'N 27-03'E	Gvardeysk (MRBM) Znamensk (MRBM)		Not discernible	Approx 2030 ft	Approx 743 ft		Not discernible	An improved road through wooded area connects transfer facility with good roads leading to Gvardeysk Launch Complex.
1.3 nm NW of Iecava, 2.9 nm NNE of Iecava Launch Site 1, 2 nm SW of Iecava Launch Site 2, 6.8 nm NW of Iecava Launch Site 3.	56-28'N 24-03'E	Jelgava (MRBM)		Single fence encloses rail spur, transfer and turning areas.	Approx 1750 ft	Approx 1100 ft	A hardened rectangular area approx is used as a vehicle turnaround.	One large and several small warehouse-type buildings. One side-loading platform approx 300 ft long. Rail spur ends at platform.	Improved roads connect the transfer point with the Jelgava Complex. High fence affords concealment of activities at ground level.
One ENE of Karmelova, 3 nm NE of Karmelova Launch Site, 2.6 nm SW of Jonava Launch Site, 2.8 nm ENE of Kalsiadorys SSM Fixed Field Position.	54-09'N 24-47'E	Jonava (MRBM)		Not discernible	Approx 1470 ft	Approx 1270 ft	Approx 210 ft	Five large storage buildings and several small buildings. End- and side-loading platform, 2 tracks.	Good roads connect transfer point with the Jonava Launch Complex.
2.6 nm N of Petrikov Launch Site, 3.4 nm SW of Konkovich Launch Site, 11.6 nm SW of Novoselki SSM Fixed Position 1, 12.7 nm SSW of Novoselki SSM Fixed Field Position 2.	52-12'N 28-20'E	Konkovich (MRBM)		Fence under construction	Approx 3250 ft	Approx 1400 ft	Approx 250 ft	One end- and side-loading platform approx 200 ft long is the only structure visible.	Concrete slabs have been laid down along the rail spur and road, indicating possible construction of a large square building and a possible guardhouse. The single spur from the main line becomes 3 tracks upon entering the transfer area. One track terminates at the forward end of the platform, 1 continues past the platform for a short distance and the third continues to the road loop. There is evidence that a possible additional structure is being constructed in the loop area. There are several other secured installations in the immediate vicinity.
0.7 nm SW of Zhitkovichi, 2.5 nm N of Kozhanovich Launch Site 1, 1.1 nm NW of Kozhanovich Launch Site 2.	52-12'N 27-48'E	Kozhanovich (MRBM)		Single fence, 660 x 2880 ft encloses parallel road, road loop and section of rail spur.	Approx 6480 ft	Approx 720 ft		Seven large buildings positioned at right angles to road and rail spur. No platforms discernible.	Good roads lead to the Kozhanovich Launch Complex.
1.4 nm WSW of Neyzidel, 10.2 nm SW of Viesville Launch Site, 6.3 nm S of Ragnit Launch Site, 14.6 nm W of Krasnoznamenask SSM Fixed Field Position, 15.5 nm WSW of Sudargus SSM Fixed Field Position.	54-54'N 22-10'E	Krasnoznamenask (MRBM) Taurage (MRBM)		Single fence encloses entire transfer area.	Approx 1500 ft	Approx 1350 ft	Approx 220 ft	A guard post located at the entrance to the secured area and a loading platform approx 200 ft long are the only structures visible at this installation.	A high fence on each side of the platform area affords concealment at ground level. The fence terminates at the end of the platform. The single spur track becomes 2 tracks inside the fenced area with one track terminating at the forward end of the loading platform while the other passes the platform and terminates a short distance beyond.

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Table 1. (Continued)

Location	Coordinates	Complex	Security	Length of Spur	Road Parallels Spur	Diameter of Road Loop	Buildings/Platforms	Remarks
3.1 nm NNW of Kremovo Launch Site, 6.5 nm WNW of Lyalichi Launch Site, 14.7 nm SW of Manzovka SSM Fixed Field Position.	44-04N 182-17E	Kremovo (MRBM)	Single fence with sentry post at road and rail entrance.	Approx 1950 ft	Approx 260 ft	Approx 230 ft	Three large warehouses and several small unidentified buildings within fenced area. No platform discernible.	Facility appears to be a dual purpose transfer area furnishing both fuel and missile unloading capabilities. Single track from main line becomes 2 tracks within secured area.
5.1 nm N of Krolevets, 2.3 nm NW of Krolevets Launch Site 1, 3 nm SSW of Krolevets Launch Site 2, 11.7 nm SW of Bereza Launch Site.	51-38N 88-27E	Krolevets (IRBM)	Probable single fence	Approx 4000 ft	Approx 2000 ft	None present	One side-loading platform approx 150 feet long. Several smaller unidentified buildings.	Transfer point is located in a wooded area adjacent to a secured transfer and storage facility. Access roads with wide-radius turns connect the transfer point with main highways.
2.2 nm S of Katta-Kurgan, 19.5 nm NE of Kurgancha Launch Site 1, 22.5 nm NE of Kurgancha Launch Site 2, 30.3 nm NE of Kurgancha SSM Fixed Field Position.	39-51N 66-15E	Kurgancha (MRBM)	Single fence with sentry post at entrance.	Two tracks extend approx 2.2 nm from main line to transfer point. One spur extends approx 4000 ft further, ending at an unidentified structure.	Approx 1493 ft	Approx 800 ft	Several warehouse-type and numerous smaller buildings. No platform discernible.	Transfer area has double-loop road with buried storage tanks within and adjacent to one loop. Facility could possibly serve as both POL and missile transfer point. Road loops are of same configuration and diameter. Access roads to the Kurgancha Complex are loose-surfaced with wide-radius turns.
20 nm NE of Makat, 15 nm S of Makat Field Launch Complex.	47-48N 53-45E	Makat (MRBM)	Not discernible	Approx 1500 ft	Not discernible	None present	One warehouse-type building; no platform discernible.	Secondary roads connect the transfer point to the launch complex and support areas.
3.5 nm SW of Mukachevo, 7.3 nm NE of Mukachevo Launch Site 1, 4.8 nm NNE of Mukachevo Launch Site 2.	48-24N 22-39E	Mukachevo (MRBM)	Single fence	Approx 5200 ft	Approx 2500 ft	Approx 190 ft	Two probable administration buildings, 1 centrally located building with vertical storage tank at NE end, 2 large probable warehouse buildings and numerous smaller support/housing buildings. Unloading platforms not discernible.	Probably a dual purpose facility serving Mukachevo A/F in addition to the Mukachevo Launch Complex. There are several rail yards in the area having the loop road configuration generally associated with a missile transfer point. These are probably transshipment points where changes in rail gauge occur. A POL transfer activity is located within the well-defined turning loop.
2 nm S of Novosysoyevka, 3.8 nm W of Novosysoyevka Launch Site 1, 6.1 nm NW of Novosysoyevka Launch Site 2, 4.5 nm NW of Novosysoyevka Launch Site 3.	44-11N 113-20E	Novosysoyevka (IRBM)	Single fence with sentry post at entrance.	Approx 2000 ft	Approx 900 ft	Approx 200 ft	One end-loading platform approx 160 ft long. Several small buildings.	Facility has double loop road with one loop serving the missile transfer operation and the other an ordnance unloading dock. A high fence affords concealment of the missile transfer area at ground level.
1.1 nm NW of Slovia, 4.8 nm NE of Ostrog Launch Site 1, 4.6 nm E of Ostrog Launch Site 2, 6 nm WNW of Ostrog SSM Fixed Field Position 1, 5.9 nm NW of Shepetovka SSM Fixed Field Position, 16.5 nm ESE of Ostrog SSM Fixed Field Position 2.	50-17N 26-48E	Ostrog (MRBM)	Not discernible	Approx 6200 ft	Approx 1300 ft	Approx 400 ft	One probable covered loading platform approx 600 ft long. Several small buildings.	Located in heavily wooded area and connected to Ostrog Launch Complex by good roads.

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Table 1. (Continued)

Location	Coordinates	Complex	Security	Length of Spur	Road Parallels Spur	Diameter of Road Loop	Building/Platforms	Remarks
On NE outskirts of Ostrov, 10.6 nm SSE of Asanovshechina Launch Site, 13.9 nm S of Shevelevo Launch Site, 5.1 nm SW of Redkino Launch Site, 3.4 nm SE of Shabany SSM Fixed Field Position.	57-21N 28-18E	Ostrov (MRBM)	Single fence approx 380 x 2200 ft with sentry post	Approx 8150 ft	Approx 1050 ft	Approx 175 ft	Platform with ramp 175 ft long parallel to rail spur and several smaller unidentified buildings.	Good roads lead to Ostrov Launch Complex. Security fence serves as screen affording concealment at ground level.
3.5 nm W of Priekule, 7.5 nm NE of Paplaka Launch Site 1, 6.9 nm ENE of Paplaka Launch Site 2.	56-26N 21-19E	Paplaka (MRBM)	Not discernible	Approx 1750 ft	Approx 800 ft	None present	One warehouse approx 400 ft long parallel to 175-foot unloading platform. Several smaller unidentified structures.	Facility uses existing roads with wide-radius turns for access. Good roads also connect transfer point with Nigrande Launch Complex, approx 18 nm ENE.
2.1 nm S of Pervomaysk, 1.7 nm W of Kamenny Most Launch Site, 5.3 nm W of Semenovka Launch Site 1, 6.6 nm NW of Semenovka Launch Site 2.	47-50N 30-50E	Pervomaysk (IRBM)	Not discernible	Approx 2400 ft	Approx 1500 ft	Approx 400 ft	Three large warehouse-type buildings and several open storage areas.	Good roads connect the transfer point with the Pervomaysk Launch Complex.
5 nm WSW of Polotsk, 7 nm NW of Polotsk Launch Site 1, 1 nm NW of Polotsk Launch Site 2, 21.4 nm NE of Plissa SSM Fixed Field Position 1, 27 nm NE of Plissa SSM Fixed Field Position 2.	56-25N 28-32E	Polotsk (MRBM)	Not discernible	Approx 3150 ft	Approx 1400 ft	Approx 280 ft	One warehouse 150 x 50 ft parallel to platform of some length. One large and several small buildings located within road loop.	The transfer point is located in a heavily wooded area and connected to Polotsk Launch Complex by good roads. It is possible that additional support to the launch complex is furnished by the T-track rail yard one mile east of this transfer point.
Northern outskirts of Postavy, 2 nm S of Postavy MRBM Launch Site 1, 15 nm S of Kozyany MRBM Launch Site, 4.6 nm WNW of Postavy MRBM Launch Site 2, 1.9 nm S of Sivtsev Fixed Field SSM Position, 17.2 nm NE of Bogatoye SSM Fixed Field Position, 14.4 nm NE of Kobylnik SSM Fixed Field Position, 1 nm SE of Pruzhany, 14.8 nm W of Pruzhany Launch Site 1, 16.4 nm W of Pruzhany Launch Site 2, 12.5 nm NE of Strigovo SSM Fixed Field Launch Position, 15.2 nm NE of Shcherby SSM Fixed Field Launch Position.	55-07N 26-52E	Postavy (MRBM)	Not discernible	Approx 2000 ft	Approx 600 ft	Half loop with turning radius.	Several large warehouses and numerous small buildings.	Construction of additional facilities is continuing in transfer area.
	53-29N 24-32E	Pruzhany (MRBM)	Not discernible	Approx 10,000 ft	Approx 1600 ft	Approx 250 ft	Not discernible	Located in a wooded area, the facility is partially obscured by trees. Probably also serves as supply support facility for local SAM sites.

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Table 1. (Continued)

Location	Coordinates	Complex	Security	Length of Spur	Road Parallels Spur	Diameter of Road Loop	Buildings/Platforms	Remarks
NW outskirts of Risti, 4.1 nm S of Risti Launch Site 1, 8 nm S of Risti Launch Site 2, 13.8 nm S of Kloostri SSM Fixed Field Position.	54-00N 24-03E	Risti (MRBM)	Not discernible	Approx 1650 ft	Approx 1600 ft	One large loop with turning radius of approx 180 ft and smaller loop with diameter of approx 90 ft.	One large warehouse, 1 possible drive-through building, and several smaller buildings.	Access road extends approx 3000 ft from main highway, makes a wide-radius 180-degree turn, then returns parallel to rail spur. Between these roads is a smaller turning loop approx 90 ft in diameter.
Northwest outskirts of Sary Ozek, 12.4 nm SE of Kara Babau Launch Site 1, 8.1 nm S of Kara Babau Launch Site 2, 14.6 nm SE of Kara Babau Launch Site 3.	44-28N 77-57E	Sary Ozek (IRBM)	Single fence approx 2200 x 600 ft	Approx 6600 ft (more than 1 track)	Approx 1200 ft	Approx 220 ft	Within road loop there appears to be a fuel transfer facility with 2 circular closed tanks, a stepdown building and a large arch-roofed building. An end-loading platform with ramp is located approx 200 ft from road loop. Rail spur becomes 3 tracks with 1 track ending at platform, the second ending just beyond platform, and the third continuing to road loop.	Presence of fuel storage tanks and a motor pool immediately adjacent to the transfer area indicates that this is probably a multipurpose facility handling missiles, fuel, and supplies for a nearby SAM site.
7 nm W of Smorgon, 4 nm SW of Smorgon Launch Site 1, 9 nm SW of Smorgon Launch Site 3, 3.5 nm NW of Smorgon Launch Site 2, 7 nm SW of Smorgon SSM Fixed Field Position.	54-30N 26-12E	Smorgon (IRBM)	Not discernible	Approx 200 ft	Approx 1600 ft	Approx 125 ft	Two buildings approx 200 x 40 ft and 180 x 40 ft. Platform not discernible.	Existing roads are used for access to transfer facility. Good roads connect transfer point to launch complex. Some expansion activity was observed at this installation on [redacted]. Construction consists of several warehouse buildings and extension of rail spur.
1 nm N of Taybola, 2.4 nm SE of Taybola Launch Site 1, 3.3 nm S of Taybola Launch Site 2, 3.5 nm NW of Taybola Launch Site 3.	68-27N 33-21E	Taybola (IRBM)	Not discernible	Approx 6000 ft	Approx 1200 ft	Approx 150 ft	Four buildings 160 ft long and 4 buildings 120 ft long, type undetermined.	Parallel fences approx 1700 ft long bound the transfer point on 2 sides affording concealment at ground level.
7 nm NE of Valga, 5.5 nm SE of Torva Launch Site 1, 8 nm SE of Torva Launch Site 2, 3.5 nm N of Teirguliina Launch Site, 10 nm WSW of Valga SSM Fixed Field Position.	57-52N 26-11E	Torva (MRBM)	Not discernible	Undetermined	Undetermined	None present	Two large and several small buildings.	Good roads connect transfer point to launch complex.
2.5 nm S of Mankovka, 5 nm NW of Molodetskoye Launch Site, 2.5 nm SW of Mankovka Launch Site, 6 nm SE of Kishentsy Launch Site.	48-55N 30-20E	Uman (MRBM)	Not discernible	Approx 300 ft	Not visible	None present	Approx 10 buildings (largest approx 500 ft long). Not all associated with spur.	Good roads connect to launch complex.
1.7 nm SE of Chudnov, 6 nm SW of Zhitomir Launch Site 1, 10.4 nm SSW of Zhitomir Launch Site 2, 9.9 nm SW of Berdichev Launch Site.	50-01N 28-05E	Zhitomir (MRBM)	Single fence	Approx 2700 ft	Approx 1500 ft	Approx 180 ft	End-loading platform approx 170 ft long, 1 stepdown building in loop area, and several other smaller buildings.	This is a newly constructed installation. Single spur rail line becomes 2 tracks within fenced area. One line terminates at end-loading platform while other continues to loop area. Two semiburied possible POL tanks are located within road loop. Installation is possibly multipurpose, housing both missile and POL transfer facilities. There are several other secured installations in the immediate vicinity.

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